NHI RF

NATIONAL
HYBRID, INC.

2200 Smithtown Ave.
Ronkonkoma, NY 11779
(516) 981-2400
FAX 981-2445

OPERATING AND MAINTENANCE INSTRUCTIONS FOR NHI RF POWER AMPLIFIERS EQUIPPED WITH INTEGRAL POWER SUPPLIES

1. INSTALLATION:

The amplifier must be installed in an area where an adequate and unrestricted supply of air is available for cooling. On equipment supplied with fans, adequate clearance must be provided to prevent obstruction of air flow. Confirm that proper prime power is available for the equipment.

2. INTERCONNECTIONS:

A. Set the amplifier's line switch (circuit breaker) to the POWER-OFF position.

B. Plug the amplifier's line cord into a grounded receptacle of the specified line voltage and frequency.

C. Connect a suitable load to the RF OUTPUT connector of the amplifier.

3. TURN-ON PROCEDURE:

A. Set the amplifier's line switch (circuit breaker) to the POWER-ON position.

B. Apply reduced RF (20dB below rated input) signal within the amplifier's operating frequency range. Increase input signal to the normal specified level and compare output power with test data supplied.

4. SHUT-DOWN PROCEDURE:

A. Reduce RF input level by 20 dB.

B. Set the power amplifier's line switch (circuit breaker) to the POWER-OFF position.

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5. REMOTE ON/OFF:

TTL compatible signals enables remote Turn-On/Turn-Off of the amplifier. A voltage of +2.2V to +5.0V applied between terminals 14 and 15 (with + on terminal 14) or a voltage of -2.8V to -5.0V (with - on terminal 15) will turn the amplifier off.

Open or short circuit conditions, or a -2.8V to +2.8V will cause turn-on.

6. MAINTENANCE:

The equipment has been factory aligned and should not require readjustment during its service life.

6.1 Preventative Maintenance:

The following preventative maintenance procedures should be performed at three month intervals or as directed by the resident maintenance authority.

a. Clean the equipment in accordance with good shop practices. use line-free cloth and dry low pressure compressed air to remove dust from the equipment.

b. Check all connections to the equipment and secure any loose cables.

c. Replace any cables which are frayed or otherwise damaged.

d. Replace any indicator lamps which have failed.

6.2 Periodic Electrical Test:

Periodic electrical tests should be performed at six month intervals. Test the equipment, checking for any significant change in performance as compared with the original test data supplied. Replace any parts which have failed, using only NHI replacement parts.

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6.3 RF Amplifier Replacement Procedure:

a. Disconnect all input and output connections to the amplifier.

b. Remove all wires connected to the amplifier and record the color codes and connection points for reinstallation.

c. Remove the mounting hardware which secures the amplifier to the heat sink.

d. Carefully remove the faulty amplifier.

e. Remove all of the old thermal compound from the exposed cold plate area using methylene chloride or equivalent.

f. Apply new thermal compound (Wakefield Engineering type 120-2 or equivalent) to the mounting surface of the replacement amplifier. The thermal compound should have a serrated surface, approximately 2 mils thick.

g. Installation of new amplifier is reverse of removal.

h. This completes replacement.

6.3.1. Verification of Repair:

Test the amplifier and compare performance with original Test Data Supplied with the amplifier.

NOTIFICATION OF RETURNED GOODS

If for any reason goods must be returned to NHI, please supply the information request below:

DATE: _____

COMPANY NAME: _____

ADDRESS: _____

_____

TELEPHONE NUMBER: _____

NAME OF PERSON TO CONTACT: _____

MODEL NUMBER BEING RETURNED: _____

SERIAL NUMBER: _____

REASON FOR RETURN (BE SPECIFIC): _____

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RETURN AUTHORIZATION

1. Please call NHI for a return authorization number when you wish to return a unit or units for repair, telephone number (516) 981-2400.

2. On all correspondence, please include the return authorization number.

3. On the documents being sent back with the returns, please include the following:

    a. NHI return authorization number.

    b. Your shipping, or purchase order number.

    c. The model number of piece being returned.

    d. The ship to and bill to address.

4. PLEASE enclose a letter describing the defect seen.